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## Organization

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## Welcome



**Aizhong Liu**

Professor

Central South University, China

Dear colleagues!

I am Professor Aizhong Liu from the Department of Epidemiology and Health Statistics, Xiangya School of Public Health, Central South University. I am also the president of the International Conference of Geospatial Information and Public Health. I'd like to show my sincere appreciation to your interest and support. It is my great pleasure to welcome you to participate in this conference!

The theme of this conference is Geospatial Information and Public Health with special focus on health care in China, rest of Asia, and Africa. Through exchange and sharing of effective data and research methods, I think we can make a great contribution in Geospatial Information and Public Health area through this conference. This conference invited many experts and scholars to present their latest research results and make meaningful academic reports. We will have a lot of different sessions for Students, Researchers, Public Health Specialists, Health Care Experts, Epidemiologists, Health Policy makers, and other great researchers. I hope that participants will get what they need and benefit from the conference.

Now, let me briefly introduce Changsha.

Changsha is the capital of Hunan province, and serves as the political, economic, cultural and educational center. I hope you will not miss the beauty of this historical and cultural ancient city when attending the conference. Enjoy the unique charm of Changsha!

Finally, on behalf of all members of the Conference Organizing Committee, I sincerely thank you for attending the conference. At the same time, I wish the Conference will achieve success! Have a good time, thank you!

## About GIPH 2019

**The International Conference of Geospatial Information and Public Health (GIPH 2019)** is sponsored by Central South University and International Society of Geospatial Health (GnosisGIS), organized by Xiangya School of Public Health. This conference will be held on **December 20-22, 2019 in Changsha, China.**

GIPH 2019 has the following topics:

**1. Geospatial information and spatial epidemiology**

**2. Public health**

**3. Public health policy and health economics**

Spatial epidemiology is a branch of epidemiology and a subject which studies the relationship between disease, health and the spatial environment by using geographic information systems and spatial analysis techniques. With the progress of spatial analysis and geographic information systems, spatial epidemiology plays an increasingly important role in the etiology study. At the same time, the function of geospatial information technology for decision-making in the field of public health becomes increasingly prominent. Public health is an enterprise for all members of society to prevent diseases and improve health. The indicators of public health directly show the living condition of human beings. Their importance is self-evident. Geospatial information technology is widely used in the field of public health through the application and industrial promotion of geospatial information technology in recent years. The significance of public health nowadays is beyond the scope of medical science and has a very important sociological significance.

GIPH 2019 will focus on geospatial information and public health, and invite famous experts and scholars— all over the world to make keynote reports. The primary goal of the conference is to bring together researchers, public health and preventive medicine workers, health policy makers and managers, clinicians, and pharmaceutical companies to a common forum, and also promote information interchange and cooperation between geospatial information and public health. The conference will call for papers from universities, hospitals, disease control centers, pharmaceutical companies, etc. We hope you will contribute to the theme of the conference and participate actively! You will have unexpected harvest! Hope to meet you in beautiful Changsha in December!

### Topics

**A: Geospatial information and spatial epidemiology related topics**

- Geospatial information, remote sensing, global positioning systems, spatial statistics, geographic information systems and other geospatial tools for public health applications
- Medical Geography
- Prevention and control of diseases including infectious diseases and chronic diseases
- Health management
- Spatial epidemiology

**B: Public health related topics**

- Environmental Health and Labor Hygiene

- Nutrition and food hygiene
- Hygienic toxicology
- Children and maternal and child health
- Social Medicine and Health Management

**C: Public health policy and health economics related topics**

- Public Health Policy and Management
- Disposal of public health emergencies
- Social Medicine and Health Education
- Health promotion and health communication
- Public health system
- Global health and health economy

## Local Information



Changsha is the capital and most populous city of Hunan province in the south central part of the People's Republic of China. It covers 11,819 km<sup>2</sup> and is bordered by Yueyang and Yiyang to the north, Loudi to the west, Xiangtan and Zhuzhou to the south, Yichun and Pingxiang of Jiangxi province to the east. According to 2010 Census, Changsha has 7,044,118 residents, constituting 10.72% of the province's population. It is part of the Chang-Zhu-Tan city cluster or megalopolis.

Changsha is located in the Xiang River valley plain, bordering on Luoxiao Mountains on the east, Wuling Mountains on the west, edging in Dongting Lake on the north and bounded on the south by Hengshan Mountains. It has a monsoonal humid subtropical climate, with an average annual air temperature of 16.8 to 17.3 °C (62.2 to 63.1 °F) and an annual rainfall of 1,358.6 to 1,552.5 mm (53.49 to 61.12 in).

Changsha has a history of more than 3,000 years. Changsha was the capital of Changsha State in the Han Dynasty (206 BC – 220 AD), and the capital of the Chu State (907–951) in the Ten Kingdoms period. The lacquerware and Silk Texts recovered from Mawangdui (2nd century BC) there are an indication of the richness of local craft traditions. In 1904, Changsha was opened to foreign trade, and large numbers of Europeans and Americans settled there.

Changsha was the site of Mao Zedong's conversion to communism. It was also the scene of major battles in the Sino-Japanese War (1931–1945) and was briefly occupied by the Japanese. Changsha is now an important commercial, manufacturing and transportation center.

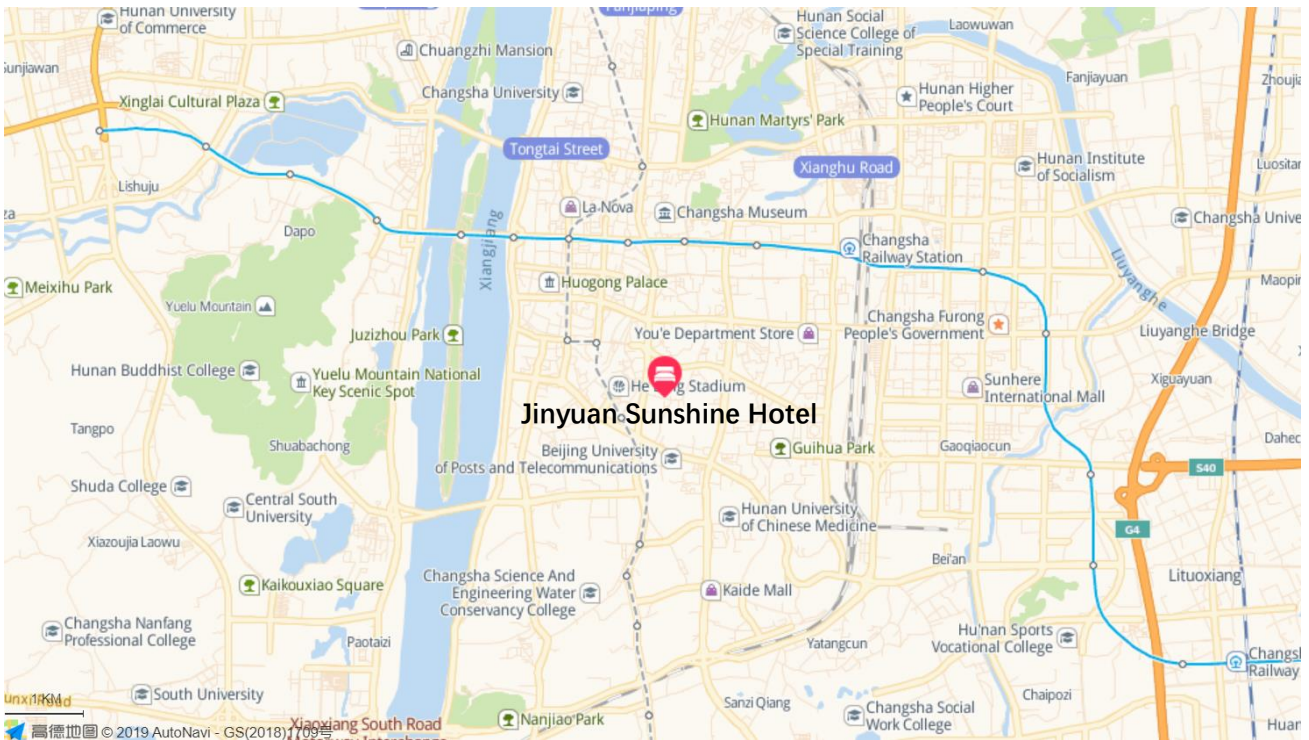
### Weather

The average high/low temperature in Changsha during conference is expected to be 13/4°C (55.4/39.2°F).

## Accommodation



### Jinyuan Sunshine Hotel



**Address:** 279 Section 2 of Middle Furong Road (Furong Zhong Lu Er Duan) Changsha China | 2.25 km from metro station (Nanmenkou)

**Tel:** 0731-85558888

## Brief Program

Friday, 20 December 2019		
09: 00—21: 00	Registration	Hotel Lobby
Saturday, 21 December 2019		
08: 30—09: 15	Opening Ceremony & Group Photo	Jin Cheng Room Gate of the hotel
09: 15—10: 25	Plenary Speech	Jin Cheng Room
10: 25—10: 45	Coffee/Tea Break	Hallway outside Jin Cheng Room
10: 45—11: 55	Plenary Speech	Jin Cheng Room
11: 55—14: 00	Buffet Lunch	Sao Paulo Buffet Restaurant
14: 00—14: 20	Invited Speech	Jin Cheng Room
14: 20—15: 50	Oral Presentation	Jin Cheng Room
15: 50—16: 05	Coffee/Tea Break	Hallway outside Jin Cheng Room
16: 05—16: 25	Invited Speech	Jin Cheng Room
16: 25—17: 55	Oral Presentation	Jin Cheng Room
17: 55—20: 00	Buffet Dinner	Sao Paulo Buffet Restaurant
Sunday, 22 December 2019		
08: 30—08: 50	Invited Speech	Jin Cheng Room
08: 50—10: 20	Oral Presentation	Jin Cheng Room
10: 20—10: 35	Coffee/Tea Break	Hallway outside Jin Cheng Room
10: 35—10: 55	Invited Speech	Jin Cheng Room
10: 55—11: 55	Oral Presentation	Jin Cheng Room
11: 55—13: 30	Buffet Lunch	Sao Paulo Buffet Restaurant
13: 30—13: 50	Invited Speech	Jin Cheng Room
13: 50—15: 50	Oral Presentation	Jin Cheng Room
15: 50—16: 05	Coffee/Tea Break	Hallway outside Jin Cheng Room
16: 05—16: 25	Invited Speech	Jin Cheng Room
16: 25—17: 25	Oral Presentation	Jin Cheng Room
17: 25—20: 00	Buffet Dinner	Sao Paulo Buffet Restaurant



## Saturday 21 December

08: 30—09: 15

### Opening Ceremony & Group Photo

Jin Cheng Room, Gate of the hotel

Moderator: Aizhong Liu, Central South University

09: 15—10: 25

### Plenary Speech

Jin Cheng Room

Moderator: Xinyin Wu, Central South University

Time	Title	Presenter:
09: 15	Spatial lifecourse epidemiology	<b>Peng Jia</b> —University of Twente
09: 50	The methods and applications of spatial epidemiology in the control of tropical diseases	<b>Jingbo Xue</b> —National Institute of Parasitic Diseases, China CDC

10: 25—10: 45

### Coffee/Tea Break

Hallway outside Jin Cheng Room

10: 45—11: 55

### Plenary Speech

Jin Cheng Room

Moderator: Xinyin Wu, Central South University

Time	Title	Presenter:
10: 45	Preparedness and performance excellence for surgeons and other health-care professionals	<b>Judy McDonald</b> —University of Ottawa
11: 20	Health Economic Evaluation of A Investment Case of Chronic Hepatitis B in China	<b>Yingpeng Qiu</b> —Health Development Research Center of National Health Commission of China

11: 55—14: 00

### Buffet Lunch

Sao Paulo Buffet Restaurant

14: 00—15: 50

### Oral Presentation

Jin Cheng Room

Moderator: Atipatsa Chiwanda Kaminga, Central South University, China; Mzuzu University, Malawi

Time	Title	Presenter:
14: 00	Application and practice of spatial statistical methods in the field of public health (Invited Speech)	<b>Ya Fang</b> —Xiamen University
14: 20	The Changing Mode of HIV Transmission and Geographical Variations among Women in a Minority Prefecture in Southwest China	<b>Shujuan Yang</b> —Sichuan University
14: 35	Spatio-temporal analysis and visualisation of scarlet fever in mainland China, 2004-2017	<b>Weitong Li</b> —Hunan Normal University School of Medicine
14: 50	Mapping scrub typhus transmission risk and identifying the associated environmental factors in Nepal using MaxEnt, Random Forest and BRT models	<b>Bipin Kumar Acharya</b> —Sun Yat Sen University
15: 05	Exploring spatial patterns of acute coronary event in Beijing during 2007-2012	<b>Jie Chang</b> —Beijing Anzhen Hospital, Capital Medical University
15: 20	Spatial distribution and risk factors analysis for different stage of syphilis in Mainland of China in 2012-2016	<b>Zhihang Peng</b> —Nanjing Medical University
15: 35	Spatial Epidemiology of human avian influenza A(H7N9) in Hunan Province from 2013 to 2018	<b>Zhipeng Wang</b> —Tianjin Medical University

15: 50—16: 05

**Coffee/Tea Break**

Hallway outside Jin Cheng Room

16: 05—18: 10

**Oral Presentation**

Jin Cheng Room

Moderator: Wenjie Dai, Central South University

Time	Title	Presenter:
16: 05	Spatial-temporal distribution and influencing factors of reproductive tract infections among women of childbearing age in Bangladesh: a geostatistical analysis of the Demographic and Health Survey data (Invited Speech)	<b>Chenyang Feng</b> —Sun Yat Sen University
16: 25	A Spatial study of Keshan disease prevalence and Selenoprotein P in Heilongjiang Province	<b>Yanan Wang</b> —Harbin Medical University
16: 40	Progress in Spatial Information Technology in Autism Spectrum Disorders	<b>Xiongfeng Pan</b> —Central South University
16: 55	Analysis of the spatial characteristics of Keshan disease in China	<b>Shan Han</b> —Harbin Medical University
17: 10	Geographical variations in risk factors associated with birth defects among alive infants in Shaanxi province, Northwestern China	<b>Yini Niu</b> —Xi'an Jiaotong University Health Science Center
17: 25	Analysis on the Spatio-temporal characteristics of Hand-foot-	<b>Yao Bai</b>

	mouth disease in Shaanxi Province, 2013-2017	—Xi'an Center for Disease Control and Prevention
17: 40	Spatial characteristics of life expectancy and geographical detection of its influencing factors in China	<b>Ke Hu</b> —Xiamen University
17: 55	Diarrhea in children under five years old in Nepal: a spatial-temporal analysis based on the demographic and health survey data	<b>Ruixue Li</b> —Sun Yat-Sen University

18: 10—20: 00

Buffet Dinner

 Sao Paulo Buffet Restaurant

## Sunday 22 December

08: 30—10: 20

### Oral Presentation

Jin Cheng Room

Moderator: Ya Fang, Xiamen University

Time	Title	Presenter:
08: 30	Multiple-scale spatial analysis of paediatric, pedestrian road traffic injuries in a major city in north-eastern Iran 2015-2019 (Invited Speech)	<b>Behzad Kiani</b> —Mashhad University of Medical Sciences
08: 50	Epidemiology and spatial characteristics in rate of different serum levels of anti-hepatitis B surface antibodies in college students in a University in Hunan Province, China	<b>Yide Yang</b> —Hunan Normal University
09: 05	Improving the evaluation of equity in health resource distribution through high-resolution mapping of disease prevalence: a study in Guangdong province, China	<b>Chuchun Wen</b> —Sun Yat-sen University
09: 20	Spatial-temporal distribution of preterm birth in China: a systematic review and modeling analysis	<b>Weihua Hu</b> —Sun Yat-Sen University
09: 35	Impact of population ageing on global deaths, 1990-2017	<b>Xunjie Cheng</b> —Central South University
09: 50	The geographical distribution and spatial accessibility of health institutions in Nepal	<b>Cao Wenrui</b> —Sun Yat-sen University
10: 05	Association between the serum uric acid and H-type hypertension in urban and rural communities hypertensive patients: a cross-sectional study from Hunan	<b>Xiaona Niu</b> —Hunan Normal University

10: 20—10: 35

### Coffee/Tea Break

Hallway outside Jin Cheng Room

10: 35—11: 55

### Oral Presentation

Jin Cheng Room

Moderator: Zhipeng Wang, Tianjin Medical University

Time	Title	Presenter:
10: 35	Dietary Patterns and Risk of Hepatocellular Carcinoma Among U.S. Men and Women (Invited Speech)	<b>Yanan Ma</b> —China Medical University
10: 55	The relative transmissibility of shigellosis among male and female individuals in Hubei Province, China: a modelling study.	<b>Zeyu Zhao</b> —Xiamen University

11: 10	Status Analysis of the Healthy City Construction: A Case Study of Hubei Province in China	<b>Li Ran</b> —Wuhan University
11: 25	The Economic Burden in Families of Children with Autism Spectrum Disorder (ASD) and its correlation with Interval Time from Diagnosis to Treatment of Children	<b>Wensu Zhou</b> —Central South University
11: 40	EHealth literacy, health-promoting lifestyle and cognitive function in Chinese older adults: an exploratory cross-sectional study	<b>Shaojie Li</b> —Central South University

11: 55—13: 30

**Buffet Lunch**

📍 Sao Paulo Buffet Restaurant

13: 30—15: 50

**Oral Presentation**

📍 Jin Cheng Room

📍 Moderator: Yanan Ma, China Medical University

Time	Title	Presenter:
13: 30	Study on the influence of meteorological, geographical and economic factors on the outdoor activities time of adults in China (Invited Speech)	<b>Tianyao Yang</b> —China Medical University
13: 50	Nephrolithiasis, Influencing Factors and Risk of Developing Cardiovascular Disease: Systematic Review and Meta-Analysis	<b>Kwabena Acheampong</b> —Central South University
14: 05	Efficiency of Primary Health Care Institution In Counties of Hunan Province, China: Data From 2009 to 2017	<b>Kaili Zhong</b> —Central South university
14: 20	The transmissibility of hepatitis C virus: a modelling study in Xiamen City, China	<b>Yao Wang</b> —Xiamen Fifth Hospital
14: 35	Lifetime prevalence of suicidal attempt among homeless persons in North America: a meta-analysis	<b>Wenjie Dai</b> —Central South University
14: 50	Feasibility of containing shigellosis in Hubei Province, China: a modelling study Running title: Feasibility of containing shigellosis	<b>Jia Rui</b> —Xiamen University
15: 05	Girls from moderate wealth & self-employed families: a subgroup sensitive to the built environment in China	<b>Yang Liu</b> —China Medical University
15: 20	Eating habits and its association with weight status in Chinese school-age children: A cross-sectional study	<b>Hanmei Liu</b> —Central South University
15: 35	Association between gene polymorphisms of vitamin D receptor and gestational diabetes mellitus: a systematic review and meta-analysis	<b>Qian Zhou</b> —Central South University

15: 50—16: 05

**Coffee/Tea Break**

Hallway outside Jin Cheng Room

16: 05—17: 25

Oral Presentation

Jin Cheng Room

Moderator: Zhihang Peng, Nanjing Medical University

Time	Title	Presenter:
16: 05	Visualization Analysis of Public Health System Research based on CiteSpace (Invited Speech)	<b>Shuai Du</b> —Chinese Academy of Medical Sciences
16: 25	Hypertensive disorders in pregnancy and risk of adverse pregnancy outcomes in offspring: a meta-analysis of cohort studies	<b>Fang Li</b> —Central South university
16: 40	Analysis on the incidence and characteristics of legal infectious diseases in China from 2014 to 2018	<b>Haitao Wang</b> —North China University of Science and Technology
16: 55	Heterogeneity of “doing the month” and its correlation with postpartum depression	<b>Xin Jin</b> —Central South university
17: 10	Study on the mechanism of neurotoxicity of pesticide A residue	<b>Ting Zhu</b> —Zhengzhou University
17: 25	Quality of Life and global functioning in symptomatic remission in first episode psychosis in Northern Malawi	<b>Atipatsa Chiwanda Kaminga</b> —Central South University, China; —Mzuzu University, Malawi

17: 20—20: 00

Buffet Dinner

Sao Paulo Buffet Restaurant











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